

ART 24 ABANT

Patent claims

1. Method of producing foamed slag in an arc furnace by
the measured blowing of a carbon carrier by means of
5 an oxygen carrier into the boundary layer between
the slag layer and the molten metal and/or into the
zones of the slag layer and/or of the molten metal
that are adjacent to the boundary layer, in an
amount such that the arcs are enveloped at least
10 partially by foamed slag layer, which method is
characterised in that finely divided titanium
carrier having a mean particle size d_{50} of from 0.001
to 1.0 mm and a grain size of up to 5 mm is blown
in, the titanium carrier being introduced in
15 admixture with the carbon carrier and the content of
titanium carrier, based on the carbon content, being
from 1 to 80 %.
2. Method according to claim 1, characterised in that
20 the titanium carrier has a content of titanium
dioxide of from 5 to 100 %, preferably from 20 to
80 %.
3. Method according to claim 1 or 2, characterised in
25 that the titanium carrier has a content of iron
oxide of up to 95 wt.%, preferably from 20 to
80 wt.%.
4. Method according to one or more of claims 1 to 3,
30 characterised in that the titanium carrier contains
one or more of the components calcium oxide, silicon
oxide, aluminium oxide and magnesium oxide.